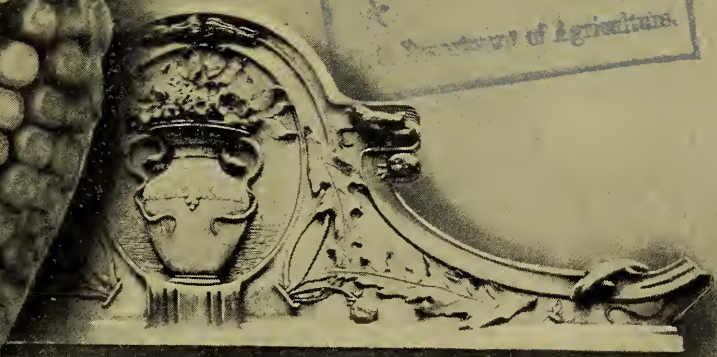


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Department of Agriculture



Vale-Quality
FARM SEEDS
1914

100 DAY
LEAMING

C. C. VALE
NEW CARLISLE, OHIO.




SQUARE DEAL GUARANTEE

Below is an exact copy of the shipping tag. Every bag of seed shipped bears one of these tags. The guarantee is plain. You are the judge. You cannot lose even the freight if not satisfied. You have ten days to examine and test the seed by any means you choose. This is surely fair.

.....**Bushels**.....

OUR GUARANTEE



If for any reason the seed you receive from us is not satisfactory, it may be returned and we will **REFUND YOUR MONEY** and pay all **FREIGHT CHARGES**. We could not do this if we were not sure that our seed is first class in every way. While we exercise the greatest care to have all seeds pure and true to name, we give no warranty, express or implied, as to description, **quality**, productiveness or any other matter of any seeds we send out, and will be in no way responsible for the crop. If seeds are not accepted on these terms they are to be at once returned and all money paid for same will be refunded. This is necessary for our protection as there are so many conditions other than seed that may cause a **crop failure**.

Terms

Our terms are strictly cash with the order. Send money by Postal Money Order, Bank Draft, Express Money Order, Registered Letter, or check. Orders will be filled promptly.

Reference

First National Bank of New Carlisle or any local business firm. Satisfied customers all over the country.

Shipping Directions

We ship by C., C., C. & St. L. R. R. (Big Four), or over the Ohio Electric Railway and connecting traction lines. Also by American, United States, or National Express. The purchaser pays freight and express charges. Please state carefully how you want your order shipped, giving your freight station, county, and State. If your freight station is different from your post-office, be sure to give both. Use the order blank enclosed, filling out each space carefully and there will be no mistake in filling and shipping your order.

To Our Customers:

Those who have used Vale-Quality seeds need no assurance as to the high standard maintained. Their purity, quality, and vitality are always right. This is the reason the trade has grown so rapidly.

"Better seed" is the cry of every experiment station, farmer's institute, and farm paper. This agitation for good seed has extended to all parts of the country. And none too soon. The time has passed for the seedsman who gets out new varieties every year, claims impossible yields, and charges you double price for the seed. The real benefit comes from steadily improving the best yielding strains by constant selection.

Those who receive my catalog for the first time are asked to look it over carefully. The descriptions of the different varieties are written so as not to be misleading. In most cases these are well-known sorts, the aim being to furnish reliable seed of the very best strain in each case, carefully grown, cured, and stored so as to make perfect seed. I believe that it will pay any farmer to use the seed offered in this catalog.

Thanking you for your orders and assuring fair treatment to all,

Yours very sincerely,

C. C. VALE.



Special attention is called to the fruit, plants, shrubs, and trees offered on pages 13 to 17. This stock is carefully grown, dug, and packed. Certificate of inspection, showing freedom from scale and other disease will accompany each shipment. All trees and plants are guaranteed healthy and well rooted. The varieties offered are the best and should be planted on every farm.



SEED CORN

Good Solid Seed, Thoroughly Dried and Tested

This stock of seed corn was grown in Clark and Miami counties in the famous Miami River Valley, on soil especially adapted to the production of fine seed corn. We are at the eastern end of the great corn belt, and our seed is adapted to the conditions of the eastern States. Many seedsmen buy their seed corn from wholesale growers in Illinois and other western States, where it matures perfectly. When planted here the season is found too short and disappointment is sure. Our seed has given the very best of satisfaction in Pennsylvania, New York, West Virginia, Michigan, Ohio, Indiana, and many other States.

Maturity--Important

The varieties are listed in this catalog in the order of their time of maturity. Pride of the North is earliest and is listed first. Johnson County White is latest. You will find this quite a help in selecting a corn for your locality. A great number of ninety-day varieties of corn are advertised. Our experience is that this is misleading as ninety days is too short a time to make a crop. The only variety we have found to mature in this time is Pride of the North. Our 100-day Leaming and Clarage are as early as the so-called ninety-day varieties.

Careful breeding can combine most any desired qualities in one variety with the exception of large ears and early maturity. It seems to be a general rule that if we want extra large ears, we must pay for it in having a later maturing corn. The varieties in this catalog range from the very earliest dent corn to the very latest. The later corn will generally outyield the earlier, but you must consider that a bushel of

good, sound corn safe from frost is worth more than a larger amount of poorly matured, frosted corn. In selecting your variety, consider your latitude, and the probable time that you will be able to get it in the ground. Our list includes the standard, high-yielding varieties, and there is one or more of them suited to your locality.

**Do You Want To
Plant Good Corn?**

WE HAVE IT!



High-Grade Seed

All the corn is husked as early as possible, hauled to the Seed House, and immediately sorted. The ears selected for seed are then placed in the narrow cribs and the ventilation carefully watched. When thoroughly dry, the corn is re-sorted and butts and tips removed by

hand. This waste shelled corn, together with all ears not fit for seed, is fed or sold to the elevator. By the time this corn is ready for our customers it has actually cost us quite a high price. Every time the corn is handled some is wasted off the cob by shattering. The butts and tips remove another ten per cent., and the shrink in drying causes a great loss from the original weight. We are satisfied that we are putting up as good a grade of seed as you would prepare for yourself (in most cases much better), and feel that our prices are very reasonable for this class of seed. Cheap seed is high at any price. Any farmer could well afford to pay double our price for seed that is carefully cared for and guaranteed to please.

We give a cordial invitation for any who can, to come and inspect the seed personally.

Graded or on Ear

The prices of seed corn for one bushel or more, are the same either on ear or nubbed and shelled. If you prefer either ear or shelled corn, please state on your order blank. A bushel of shelled and graded corn will plant about eight acres, varying slightly for the different varieties, according to the size of the kernels. A bushel of ear seed will plant from five to six acres, depending on the amount you discard in tipping, butting, and grading.

If you order your corn shipped on the ear, do not expect them all to be perfect or show ears. That would not be fair to our other customers. However, we have enough confidence in all our seed to guarantee that it will please you.

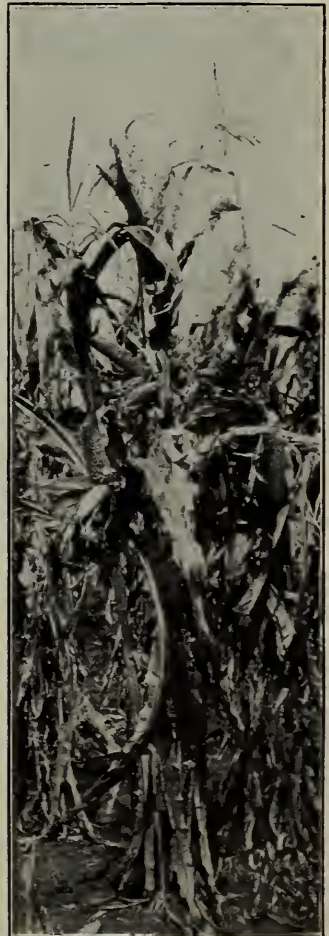
Ear seed is carefully packed in new, strong crates, one bushel (70 lbs. net) to each crate. Shelled seed is shipped in best grade white cotton grain bags, the kind you can use on the farm for many years.

NOTICE

Reports from all parts of the country show that the corn crop is the poorest ever grown. Not only is it a complete failure in many localities, but the quality is such that very few farmers can select good solid seed from their own crop. The demand for well-matured, sure-growing seed of well-bred sorts will be great. Those who depend on us regularly for their seed corn are urged to order early.

Samples of any variety will be mailed free of charge.

Send for samples and prices before you buy GRASS SEED, SOY BEANS, COW PEAS, SEED POTATOES, or any farm seeds.



It will pay to plant good seed

Pride of the North



The Earliest Yellow Dent Corn of Any Value

Pride of the North is a real ninety-day yellow dent. An old standard variety. It will mature wherever a dent corn can be grown. The ears are not large, but of good shape and uniform type. Bright yellow with red cob, grains fairly deep. The ears average seven to eight inches in length and are very solid. The fodder is rather small, but very good quality for feed.

Prices: Peck, \$1.00; one-half bushel, \$1.75; one or more bushels, \$3.00 per bushel.

Orders will be shipped on ear or shelled. Prices include bags free. Sample ear by mail, 35 cents.

Clarage

Grown in Ohio for Almost a Century.

Probably as widely planted in Ohio as any other variety, and has the longest history of any corn originated in our State. It was grown first by Edmund Clarridge, in Ross County, nearly eighty years ago.

Clarage has been the standard variety at the Ohio Experiment Station for nearly twenty years. In all corn tests the other varieties are compared with a corresponding plot of Clarage. This fact alone is sufficient evidence of the worth of Clarage as an early maturing, heavy yielding corn.

Description: Ears medium in size, slowly tapering, eight to nine inches in length, with fourteen to eighteen rows of deep, rich golden yellow kernels. Both ends of the ear are well filled. Easy to husk because of the small shank. The cob is medium size and bright red.

As to early maturity, all that is necessary to say is that the Ohio Experiment Station, at Wooster, is well north in our State, and in Circular No. 117 they say simply, "It matures safely here."

Prices: Peck, \$1.00; one-half bushel, \$1.75; bushel, \$3.00. On ear or shelled.

Reports this last season show Clarage to be a very desirable corn in Michigan, New York, and Pennsylvania, as well as in Ohio.



Nursery Stock

We want to say right here that all of the fruit trees, ornamental trees, etc., offered in this catalog are first class, true to name and of the sizes mentioned. You take no chances whatever in placing your order with us. You can see just exactly what is offered. There is no chance for a misunderstanding as everything is stated plainly. As to prices, it is only necessary for you to compare them and you will see that we are saving you the agent's commission.

The varieties offered in the list are the best for general use. Our stock is all propagated by budding and grafting and are all clean, healthy trees and plants.

See pages 14 to 17.

The illustrations in this catalog including those on the cover, are from actual photographs.

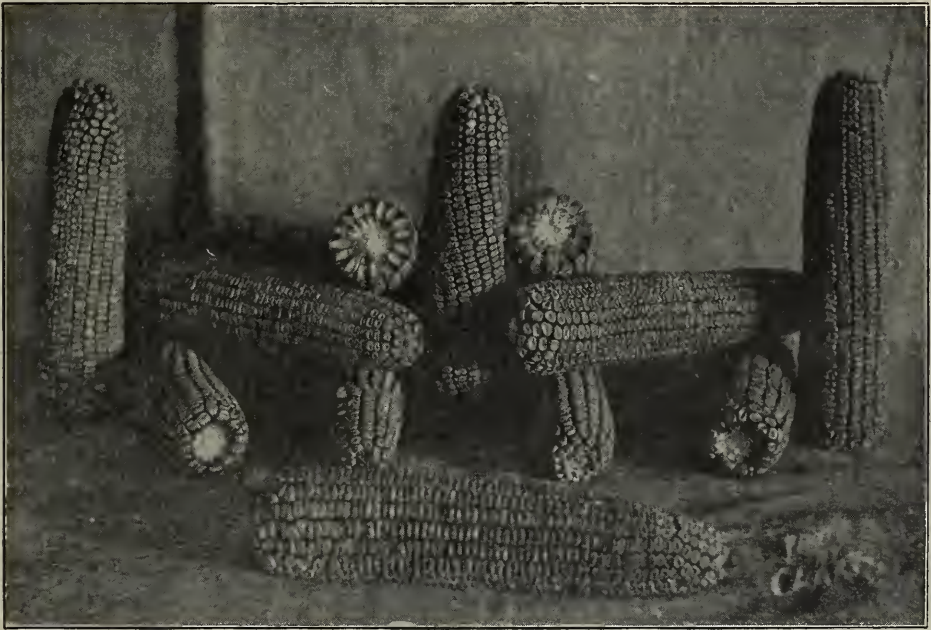
100 Day Leaming

An Early Corn That Yields

A corn that has been bred with two points in view—early maturity and high yield. It is the medium in both. Will yield more than Pride of the North or any other early corn that we have ever seen. It is really a valuable corn for the corn belt, north and south. Will yield probably ten per cent. less than Reid's Dent or Johnson County White, but will be ready to crib two or three weeks earlier, and you will have a crop of solid corn. We recommend 100-Day Leaming for early feed or late planting in the southern and middle corn section and for all purposes farther north. You will be surprised at the yield of this corn and how early you can commence getting in the crop.

Description: Ears large, averaging about one inch less than Reid's Dent, and about the same shape. Tips are well filled and butts rounded. Color, bright yellow with red cob. The grains are narrow, wedge shaped, and closely set, making the ears very solid. Cob medium size. A good corn and a sure yielder. The fodder is medium size and well set with leaves.

Prices: Peck, \$1.00; one-half bushel, \$1.75; bushel, \$3.00; on ear or shelled. Prices include bags and crates free. Sample ear by mail, 35 cents.



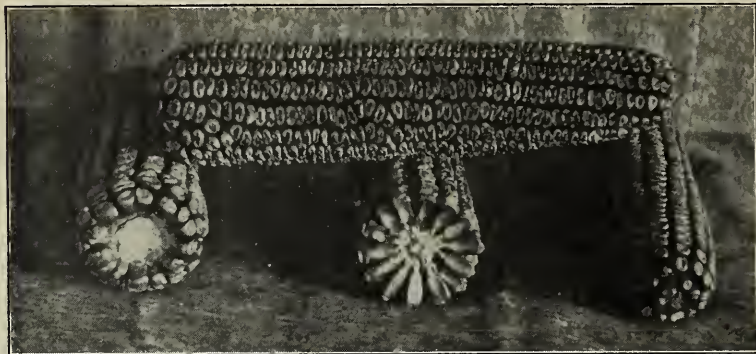
Parcel Post Prices

Owing to a special ruling on seeds and plants we are required to pay the same postage regardless of distance. It is cheaper for those wanting small amounts of seed corn to order a peck or half bushel by express. However for the benefit of those so far away that express rates would be too high we make the following prices which include the price of seed, postage, and expense of packing.

Seed corn, any variety shelled: 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75; 5 ears, \$1.25; 10 ears, \$2.00.

TRY OUR SEED THIS YEAR

Many farmers using large amounts of seed for silo and grain crops send us their order every year. Send a trial order. High-grade seed will pay big returns.



**GOOD
AT
BOTH
ENDS
AND
THE
MIDDLE**

Golden Surprise

Will Mature Anywhere in the Corn Belt.

A Great Feeding Corn

Golden Surprise is well known to many corn growers and they are planting it year after year. The cob is small and the grain very deep. A bushel of seventy pounds of ears will make from sixty-one to sixty-three pounds of shelled corn. The feeding value to the bushel is well worth considering. Cattle eat the whole ear and enjoy it. The color is bright golden and amber yellow with red cob. As to maturity this corn is just about right. It has matured here when planted very late, and feel safe in saying that it will mature anywhere in the corn belt. Anywhere in Ohio, Indiana, Illinois, Pennsylvania, and similar latitudes you need not be afraid to try this variety.

Golden Surprise fodder is of the very finest quality. The stalk is medium in height, easy to handle, with a great abundance of broad leaves. Our crop was planted May 16 to 20, and put in shock September 5 to 12, well ripened. The stalks are not high, but the large ears and broad leaves are there sure.

The qualities that you should consider in selecting your seed corn are: **Good Yield, Deep Grain, Early Maturity, Uniform Ears; Strong, Medium-Sized Stalk; Broad, Closely-Set Leaves, Feeding Quality of Corn and Fodder.** Golden Surprise fills the bill.

Prices: Peck, \$1.00; one-half bushel, \$1.75; bushel, \$3.00; on ear or shelled. Sample ear postpaid, 35c. Prices include bags free.



ORDER EARLY.

The supply of seed corn is less than other years but remember that the quality is strictly first class.

Artificial heat has been used together with natural ventilation in drying all our seed corn.

These varieties have been tested all over the country and stand well at the various experiment stations.

We have improved strains that have been grown year after year for seed purposes.

You cannot buy better seed corn.

Seed Wheat and Rye

We have sown extra fine pure clean seed of Red Wave, Poole, Mediterranean and Gypsy seed wheat. These are the highest yielding, pure bred varieties. Soon after harvest the fall catalog will be ready. Shall we put your name on the list for this catalog?

ADD SOME OF OUR FINE BERRY PLANTS TO YOUR ORDER

White Cap Yellow Dent

Vale's Improved Strain

A very Popular Variety

White Cap Yellow Dent has been known for many years as a good yielder on all kinds of land. We have worked for several years to produce a select strain of White Cap. When it first came to us the ears were long, slender, and without any definite type. We have bred it up, selecting ears about the size and shape of Reid's Yellow Dent, with deep, compact grains, without changing the time of maturity. This is a distinct type and is not to be confused with the ordinary "White Cap," which is a name given in various localities for any size and type of ear having this color.

The ears are large, from nine to eleven inches long and seven to eight inches in circumference. The grains are deep and very closely set, making a solid ear. The outside of the ear is white, owing to the white capped kernels, but when shelled the grain is a bright lemon yellow color.

The cobs are both red and white. The fodder is medium large. This corn will mature ahead of the late dent varieties. We recommend White Cap as the best yielder on thin land.

Prices: Peck, \$1.00; $\frac{1}{2}$ bushel, \$1.75; bushel, \$3.00. In crates or shelled. Sample ear for 35c postpaid.

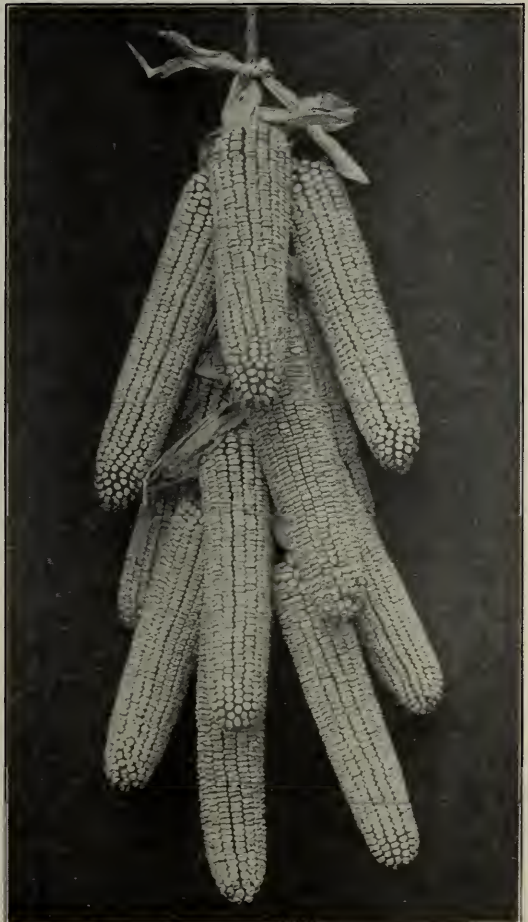
White Ensilage

Greatest of All Fodder Varieties

A pure white corn with a bright red cob. It is similar to varieties known in different localities as "White Fodder," "Red Cob Ensilage," and "St. Charles White." Grows very large, yielding more silo corn than any other variety. Drill thickly in rows three to three and one-half feet apart. We do not grow this variety, as it does not mature for seed here. We buy our seed from a reliable grower, already shelled. We cannot furnish White Ensilage on ear.

Prices, bags free, shelled, not graded: one-half bushel, \$1.25; bushel, \$2.25; six or more bushels, \$2.10 per bushel.

This strain has been grown on the same farm by the same man for over ten years. He has furnished our seed each year, carefully picked and sorted. The yield has run from 75 to 105 bushels per acre, the highest being a year ago, 1912. The photograph is of ears planted in the spring of 1912, and gives a good idea of the excellent type developed during these ten years.



Improved White Cap

Reid's Yellow Dent

(EARLY STRAIN)

The Great Yellow Show Corn

There is more Reid's Yellow Dent grown in the corn belt than any other variety. It is the main crop corn. The ears are very large, nine to eleven inches long, and seven to eight inches in circumference; light yellow in color, having twenty to twenty-four rows of deep wedge-shaped kernels. The tips are covered and the butts well filled and rounded, making a small shank and easy to husk. The ears run very uniform in size and shape, making an excellent show corn. In fact, Reid's Yellow Dent has won more prizes than all other yellow corns together. The ears are just the right size and shape to make a high score with the score cards now in use. The stalks are nine to twelve feet high, making an abundance of fine fodder. This variety will out-

yield any yellow corn we have ever known. If planted early so as to have good time to mature it will make an enormous yield of sound, heavy ears. We have tested several strains of this corn and are satisfied that we now have the earliest maturing, pure bred Reid's Yellow Dent. In average seasons this corn will be out of the way of frost in 120 to 125 days. Will mature in the latitude of southern Ohio, Indiana, Illinois, Pennsylvania, and States south.

Prices: peck, \$1.00; ½ bu., \$1.75; bushel, \$3.00. Sample ear postpaid, 35c.



POULTRY

Brown Leghorn—We have a high-bred strain of this great egg-producing breed, and have selected fine breeding pens. These hens have been remarkable layers, and for this purpose are the most profitable. Eggs for hatching, \$1.00 per 15; \$5.00 per 100.

Rhode Island Reds are the most popular breed at present. They are considered the best general-purpose fowl and especially adapted to farm conditions. We can furnish eggs from very fine stock. Price per 15, \$1.25; per 100, \$5.75.

CLIPPER

Seed and Grain Cleaner

Clipper vertical blast cleaners are used in all seed houses, and will make any possible separation. We have used the No. 1 mill and also a large power machine. They have helped build our reputation for the very best grade of seed. The No. 1 cleaner is especially adapted to farm use, for cleaning clover, timothy, wheat, and grading corn. Price, with 12 zinc screens, \$21.25. No. 2, a larger size for hand or power, \$32.00. Special circular on request.



Johnson County White

The Grand Sweepstakes Corn of America
Prize-Winning Strain

If any corn can be called high-bred, the Clore strain of Johnson County White is surely entitled to first place. As long ago as 1907, at Chicago, Mr. Clore won Grand Sweepstakes, netting him \$7,536.50 in cash and prizes, one ear selling for \$250. Again, in 1908, at Omaha, Nebraska, Mr. Clore's corn was awarded Grand Sweepstakes with premiums to the amount of \$2,200. In 1909, this variety again won over all others.

Description: Ears cylindrical to within two inches of the tip. Kernel and cob pure white, tips well filled and mostly completely covered; butts deeply rounded with medium shank. Kernels uniform and wedge shape. The ears average about ten inches in length. Slow in maturing and an enormous yielder.

Caution: This variety is slow maturing. You must plant early. If you cannot plant the crop early, use two varieties. It will pay you to plant a field of this variety if you want to enter your local or State corn show next year, as it is, without doubt, the "greatest show corn on earth."

Prices: peck, \$1.25; one-half bushel, \$2.00; one or more bushels, \$3.50 per bushel, Sample ear by mail, 50c.

SEED POTATOES

Irish Cobbler. This heavy yielding early white potato ripens with the first earlies and produces a uniform crop of smooth, round, white potatoes. They are favorites on market, outselling all other varieties. The flesh is pure white and good quality.

They keep till spring, start with large vigorous sprouts, making a quick growth. This new variety has come to the front to stay. Extra fine seed. Price: peck, 70c; $\frac{1}{2}$ bushel, \$1.00; bushel, \$1.50.

This price is not guaranteed after the present stock is sold. Price is the same for Early Ohio, Carman and Rural New Yorker. Our Michigan-grown seed of these varieties is fine.



Cobblers



REGENERATED SWEDISH SELECT OATS

The Heaviest Yielding Oats in America

Northern Ohio Grown

The Regenerated strain was introduced by the Garton Company and has given record yields wherever sown, yielding from twenty to forty per cent. more than local varieties grown under similar conditions. The main points to consider in this strain of oats are: **Large Yield, Strong Straw, Early Ripening, Plump, Heavy Grain.**

The yield of this oat is simply enormous. The plant makes a good growth and develops a strong root system making it the best drought resister in dry seasons. It is one of the earliest to ripen and is, beyond all doubt, the greatest oat in the country.

HISTORY OF THE SWEDISH SELECT OATS

From Which the Regenerated Strain was Developep

(Note—If you are interested in the history of this oat and the results of Government tests, write to the Department of Agriculture, Washington, D. C., for Bulletin No. 182, entitled, "Ten Years' Experience with the Swedish Select Oats." This bulletin gives letters from farmers in various States who tested this oat along with local varieties and report invariably a large increase in yield, frequently double that of other varieties.)

This variety was introduced to this country from Russia in 1889 by the United States Department of Agriculture, only twenty bushels being obtained. Now the annual production of this variety is estimated at fifty million bushels.

Characteristics—Bulletin No. 182 says: "The Swedish Select variety is a large-grained, white oat, with a spreading top or panicle. The distinguishing marks are a blunt, plump kernel, with usually dark, slightly twisted awns, and a heavy weight per bushel. It is a very prolific variety, which quality, together with the size and weight of the kernel, is no doubt the result of previous selection."

Professor Moore, of the Wisconsin Experiment Station, says:

"In all comparisons with selected varieties of oats, the Swedish were equal to the best in point of yield and had several desirable characteristics superior to other varieties."

And he also says: "The Swedish Select Oats seem especially adapted for high, well-drained land, and the best-known returns from clay-loam soils. The great root development is one of the characteristics of the Swedish Oats, which enables the plant to resist drought better than any other variety tested. The straw is coarse and is noted for its stiffness and power to withstand lodging."

Thick and thin seedling test
with oats, Nine-year
average net yield.
Four varieties
used.

Rate of seedling	Bushels per acre
Four pecks per acre..	48.94
Five pecks per acre..	52.27
Six pecks per acre...	52.97
Seven pecks per acre.	53.24
Eight pecks per acre.	53.43
Nine pecks per acre..	54.24
Ten pecks per acre...	53.54
Eleven pecks per acre	53.80
Twelve pecks per acre	52.64
From Ohio Experiment Station Record.	

This seed oats is extra fine. It is bright, plump, and heavy. It is pure, it is free from foreign seed. There is no wild oats or other foul seed on the farm where it was grown.

We have only 1,500 bushels to sell this year. Last year we had to refuse orders after selling 3,000 bushels.

Every grain produces a strong plant. The top bushels are profit.

Price of oats, including bags free: Peck, 50c; bushel (32 lbs.), \$1.25; 5 to 20 bushels, \$1.00 per bushel; 20 or more bushels, 95c per bushel.

Mr. Vale,
Dear Sir:

April 19, 1913.

I received the oats all right on Thursday the 17th. It looks all right, seems to be heavy and clean, large plump grains. Everything all right.
Yours truly,

J. W. Barr,
Perry Co., Pennsylvania.

C. C. Vale,
Dear Sir:

November 17, 1913.

I was well pleased with the oats, although short of seed, sowing 7 pecks to the acre got 68 bushels per acre on average. Had I had enough seed would have made me \$100 more this harvest.

Yours truly,

A. F. Richey,
Summit Co., Ohio.

Mr. C. C. Vale,
Dear Sir:

March 6, 1913.

I received the oats all O. K., and I am well pleased with them. They are better than I expected, the best I ever bought. I wish I could raise oats like them. Thanking you for fair treatment, I remain your friend and future customer,

Max Schneider,
Franklin Co., Indiana.

We have many letters like these—our oats is always satisfactory. We have never heard from a customer that was not pleased.

SOY BEANS

The soy bean is fast becoming one of the regular crops in the corn belt. The grain contains 29% digestible protein and is a very rich feed. However, at present the price is too high for feed. For this reason the seed is a profitable crop. The yield is about the same as wheat and the price is three times as high. And above all it is as much benefit to the soil as clover. The fallen leaves and roots alone add 10 pounds nitrogen per acre. Soy bean silage (one part beans to two parts corn) is a balanced ration. For hay they are cut when the first pods form. For forage plant any time from May until August, using 1½ to 2 bushels per acre. For grain plant the same time as corn three pecks to one bushel per acre.

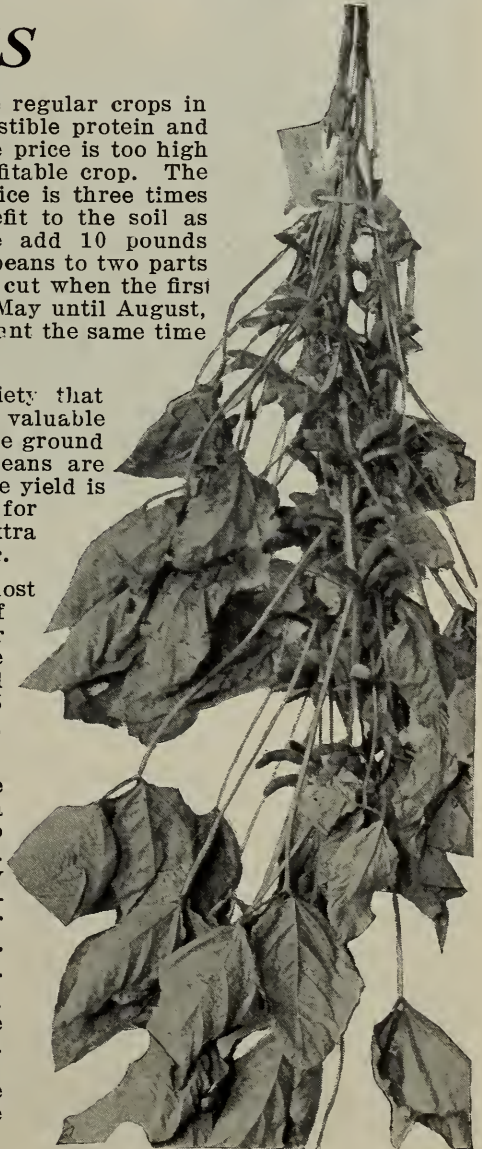
Mammoth Yellow—A strong-growing variety that makes a very large vine and for this reason is valuable for silo or where the vines are to be left on the ground or plowed under for green manure. The beans are large, smooth, and of a good yellow color. The yield is very heavy when the season is favorable for maturity. Later than Medium Green. Extra fine seed. Price per bushel, \$2.45; peck, 75c.

Medium Green—This is probably the most popular variety. It grows to a height of about 18 inches and matures safely in our latitude. The beans are smaller than the yellow and green in color. The average yield for Ohio is 18 bushels; on good soil, 25 to 35 bushels can be grown. Price: bushel, \$2.90; peck, 85c.

Cow Peas—Although they do not mature grain in the northern States, cow peas are a valuable leguminous crop, adding nitrogen to the soil and making good hay and pasture. The hay contains about 36% protein. They are not as easily harvested as soy beans because of the mass of vines. Whipoorwill or New Era. Price per bushel, \$3.40; peck, \$1.00.

Field Peas—White field peas are used for hay. They should be sown early in the spring. A mixture of two bushels field peas and one bushel oats per acre has been found the best. Price per bushel, \$2.50; peck, 75c.

Prices on soy beans and peas change through the season. We will make you the best possible price at any time.



HAY AND FORAGE CROPS



Prices on these seeds change frequently so that we cannot make a fair price for the entire season. If you will send a list of the seed you need we will make the very lowest possible price for the best quality seed. The guarantee gives you the privilege of sending samples to your experiment station for tests and if found unsatisfactory return the seed. Our responsibility ends when you sow the seed.

Timothy—A specially re-cleaned brand that tests over 99 ½ % purity. Price on application.

Alfalfa—The very best American grown seed only. Imported seed is cheaper but you do not want it. Ask for price of this fine seed.

Clover—Medium Red and Mammoth. Pure clean seed.

Alsike—Good in hay or pasture mixture. Sow early in the spring. Very hardy and will grow on soils too low in humus for Red Clover. A good hay mixture is ¼ alsike, ¼ Timothy, and ½ Red Clover.

Sweet Clover—Used for renovating worn-out soils.

Red Top—This grass is used throughout the New England and southern States for pasture and hay. We can furnish this seed hulled or in the chaff.

Orchard Grass—A standard grass that will grow on most any soil. Cut for hay in May or June and pasture the rest of the season.

Kentucky Blue Grass—1 lb. postpaid 25c; by freight or express, bushel \$1.90.

Spring Barley, bearded, should be sown early. Per bushel, \$1.25.

Beardless Barley, a good nurse crop for alfalfa. Per bushel, \$1.50.

Speltz—A new grain, resembles barley. A good feed. Price \$1.25 per bushel.

Hairy Vetch (Winter or Sand Vetch)—Price, per lb., 12c; bushel (60 lbs.) \$6.50.

Japanese Buckwheat—\$2.00 per bushel.

Spring Rye—\$1.40 per bushel.

Winter Rye—\$1.10 per bushel.

Dwarf Essex Rape—Sow from May 1 to the last of July. Will be ready to pasture in 8 to 10 weeks after sowing. Price, 8c per lb.; 100 lbs., \$7.35. Price on larger amount on application.

Millet

German—A large-growing millet making good hay. Do not sow later than June. We have fine home-grown seed at a special price. Price, per lb., 6c; bushel (50 lbs.) \$2.25.

Hungarian—An earlier Millet, a quick crop and makes fine hay. Price per lb., 7c; bushel, (48 lbs.) \$3.00.

The amount to sow per acre differs according to the soil and locality. The above table gives the usual amounts. Spare seeding is not economical, and above all, use pure seed of high germination.

Quantity per Acre and Weight per Bushel

	Weight per bushel	Weight to seed an acre
Red Clover	8-14 lbs.	60 lbs.
Alsike Clover	8-10 lbs.	60 lbs.
White Clover	6-8 lbs.	60 lbs.
Alfalfa	15-20 lbs.	60 lbs.
Crimson Clover	10-15 lbs.	60 lbs.
Timothy	12-20 lbs.	45 lbs.
German Millet	40-50 lbs.	50 lbs.
Hungarian Millet	40-50 lbs.	48 lbs.
Blue Grass	40-50 lbs.	14 lbs.
Red Top, Fancy, solid seed	10-12 lbs.	
Red Top, Chaff	30-40 lbs.	14 lbs.
Orchard Grass	40-45 lbs.	14 lbs.
Perennial Rye Grass	40-50 lbs.	24 lbs.
Pasture Mixture	40-42 lbs.	
Dwarf Essex Rape— in drills	2-3 lbs.	55 lbs.
Dwarf Essex Rape— broadcast	4- lbs.	
Field Peas—broadcast	150-180 lbs.	60 lbs.
Field Peas—with oats	90-100 lbs.	
Cow Peas—broadcast	60- lbs.	60 lbs.
Cow Peas—in drills	30- lbs.	
Broom Corn	8-12 lbs.	46 lbs.
Buckwheat	50-60 lbs.	52 lbs.
Wheat	90-120 lbs.	60 lbs.
Rye	85-100 lbs.	56 lbs.
Oats	70- lbs.	32 lbs.
Barley	95-120 lbs.	48 lbs.

STRAWBERRIES

The three varieties offered here (early, medium, and late,) are perfect in bloom and need not be planted with other sorts to pollinize. These are the best of all varieties. A small planting of each will give you fine berries throughout the season. The cost of plants is small and very little care is needed after the bed is established. Add some of these plants to your order.

CHESAPEAKE (medium)—A new variety that has taken its place among the best. The berries are dark red and of a very fine flavor. They ripen several days ahead of Gandy and continue throughout the season. The fruit is extra large, uniform and fine color. A heavy yielder. Price, dozen postpaid, 30c; 100 by express, 75c.

Senator Dunlap (early)—A bright red, glossy berry of fine flavor, one of the regular main crop sorts. This variety is very productive and will do well under most any conditions. Perfectly hardy and a rapid grower. Ripens early and produces many pickings of the finest fruit. Prices: dozen postpaid, 25c; 100 by express, 60c.

Gandy (late)—This is the old main crop variety. It can be depended on for a big crop of fine large berries. Commencing before the early sorts are gone and bearing until late in the season. They bring the highest prices on market. Prices: dozen postpaid, 25c; 100 by express, 60c.



CARDINAL RASPBERRIES

This new berry is the greatest of all for home use. It is the most productive raspberry grown. The large purple berries have the finest rich flavor and are in great demand on market. If for home use, a few plants will furnish large quantities of the very best of all fruits. The plants grow extra large and are very hardy; they will thrive even under adverse conditions. Price: 1 doz. postpaid, 50c; 100 by express, \$1.50.

CUMBERLAND.

Cumberland—In hardness and productiveness this is the best of all the black raspberries. The fruit is extra large, firm and fine-flavored. It ripens in mid season. Valuable for shipping or home use. Price: 1 doz. postpaid, 50c; 100 by express, \$1.50.

PLUM FARMER.

Plum Farmer—A good early black cap. The berries are firm, thick-meated, and ripen quickly. The most popular variety in the Eastern States. Price: 1 doz. postpaid, 50c; 100 by express, \$1.50.

KANSAS.

Kansas—Another popular berry. A dependable main crop sort. The fruit is large and fine flavored. Price: 1 doz. postpaid, 50c; 100 by express, \$1.25.

ST. REGIS

EVERBEARING RASPBERRY.

We have pure, true-to-name stock of this widely advertised new berry. The berries are bright red, large and fine flavored. The canes are hardy, doing well on all soils and producing fruit the same year planted. The berries continue to ripen until October. Ripe fruit for four months, and of the very finest quality. You should try a few plants of this new sort. Good, strong plants will be mailed at the following price, postpaid: 10c each; \$1.00 per dozen; by express, \$3.00 per 100.

Eldorado Blackberries

are considered the best for market or home use. They are of the finest quality and jet black. They have a flavor distinctly their own. They are strong, upright growers, and very productive. This is not a new variety but has been thoroughly tested and becomes more popular every year. Good, strong plants will be sent at the following prices: postpaid, 75c per dozen; \$2.00 per 100, by express.

Snyder—The old standard variety for main crop. A sure yielder. Postpaid, 60c per dozen; \$1.50 per 100 by express.

Gooseberry

Two-year, No. 1, first-class plants, 15c each, 6 for 80c.

Downing—One of the most favored of the Gooseberries and most extensively planted.

Houghton—Very productive, old and reliable variety.

Currants

Good field-grown, first-class plants, 15c each, 6 for 75c.

Cherry—Large fruit, very red, productive tree.

Fays—One of the best and universally used by the fruit growers.

London Market—A favorite for home market, dark red berries.

White Grape—Very vigorous grower. Excellent fruit for table use. Golden white berries and borne in large clusters.

Grapes

The following are the leaders among all grapes:

Concord—Black, early, hardy, good shipper and popular.

Brighton—Red, good flavor and quality.

Worden—Large bunches of grapes. Black. Good market variety. Any of the above varieties at 10c each.

Quinces

Quince—First class, 4-5 ft. 35c each, 3 for \$1.00.

Quince—First class, 3-4 ft. 30c each, 4 for \$1.00.

Orange—Bright golden yellow fruit and quite tender. Good market variety.

Champion—Very strong, rugged, and exceedingly productive. Fruit large, a rich yellow color.

Apples

Apple—First class, 2 yr., 4-6 ft. 25c, 5 for \$1.00.

Apple—First class, 1 yr., 4-5 ft. 20c, 6 for \$1.00.

Jonathan—Late fall or early winter, white flesh, pale yellow flushed with red. Medium-sized apple, high quality.

Sweet Bough—Large light yellow, tender and sweet, good market apple, excellent for baking.

Maiden Blush—Smooth, round, beautifully flushed. Good for table use. Good market sort.

Golden Russett—Medium size, clear golden russett, tender and juicy, high flavored. November to April.

Wealthy—Large, smooth apple, free grower. Almost overspread with brilliant red. October to January.

Yellow Transparent—Medium size, pale waxen transparent yellow, tender and good. Good for home and market. Very early.

Arkansas Black—Large crimson black apple, perfectly smooth, flesh yellow, juicy and delicious.

Baldwin—Bright red and very rich. Very productive. Good market apple.

Grimes Golden—Flesh tender and rich, golden yellow, well-known market variety.

Winesap—One of the best keepers. Fruit medium, flesh yellow, firm and with rich flavor.

Ensee—Large, plump apple. Pale yellow mixed with red, surface smooth, skin thick, rich quality, good keeper. The tree is rather spreading and upright in habit with rather pale bark. It blossoms after the Ben Davis and is considered a very productive and regular bearer. Season, late fall or early winter. Adapted to home and market use.

Peaches

Peaches—First class, 4-5 ft.,
20c each, 6 for \$1.00.

Peaches—First class, 3-4 ft.,
15c each, 7 for \$1.00.

Peaches—First class, 2½-3½ ft.,
10c each, 12 for \$1.00.

Our peach trees are budded on peach seedlings that are grown from seed gathered in a section of the country that is absolutely free from all peach diseases. You will find this worth your consideration when placing your order for trees.

You will not make a mistake in ordering any of the following varieties, as they are the best tested kinds, and are recommended by the fruit growers.

Elberta—A good commercial variety, large fruit with golden yellow skin, juicy and rich, and firm enough to ship well. The tree is a vigorous grower. Freestone.

Kalamazoo—Fruit large, yellow with rosy cheek. Flesh yellow to the pit, Freestone.

New Prolific—Large yellow fruit. Popular market variety. Freestone.

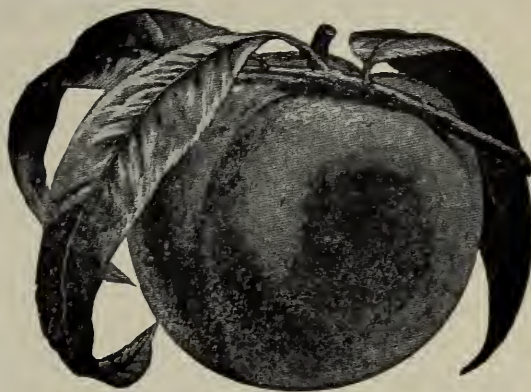
Crawford's Late—Very large, rich, yellow freestone. Tree very productive.

Crawford's Early—Similar to the Crawford's Late, only it ripens two or three weeks earlier.

Carmen—The first real freestone peach of the season. Good market variety. Fruit large yellowish white. Flesh creamy white.

Champion—One of the finest freestone peaches. Flesh white, rich, sweet and juicy. Tree hardy and very productive.

Bokara—Fruit large, skin yellow with red cheek. Freestone.



Elberta Peach

Plums

Plum, 2 yr. old, 1st class, 5-7 ft., 35c each, 3 for \$1.00.

Plum, 2 yr. old, 1st class, 4-5 ft., 30c each, 4 for \$1.00.

Plum, 2 yr. old, 1st class, 3-4 ft., 25c each, 5 for \$1.00.

Our plum trees are budded on Myrobalan plum roots which insures them to be long-lived trees and will stand transplanting.

Bradshaw—Very large plum, early, dark violet red.

Burbank—Successful almost everywhere, cherry red in color, firm and sweet flesh.

Pond Seedling—Reddish purple plum, large and oval shape, rich and juicy. Tree vigorous.

Guei—Very popular as market variety, flesh greenish yellow, large deep blue plum.

Lombard—A favorite for canning, medium size, oval, violet red, good and juicy.

Moore's Arctic—Purplish black plum with thin skin, fine flavored. Tree productive and good seller.

Abundance—Yellow plum, large, flesh yellow, very juicy. Tree a strong thrifty grower. Good shipper.

Cherry

Cherry—2 yr. old, 4-6 ft., first class.....35c each, 3 for \$1.00.

Cherry—2 yr. old, 3½-4½ ft., first class.....25c each, 5 for \$1.00.

Cherry—2 yr. old, 2½-3½ ft., first class.....20c each, 6 for \$1.00.

Our cherry trees are budded on Myrobalan roots which have proven to be long lived and make the most productive trees. The following six varieties are considered the best for planting both for home and market purposes.

Monemorency—One of the best sour cherries. The fruit is large, light red and handsome and one of the finest flavored.

Black Tartarian—Purplish in color, vigorous tree.

May or Early Richmond—Tree is a vigorous grower and reliable producer, medium size and dark red.

Dyehouse—One of our early cherries, medium size fruit, soft and juicy.

Duke—Large light red cherry of excellent flavor. Tree strong, upright grower.

Gov. Wood—Standard in quality among the sweet cherries, the tree is a stout, healthy and vigorous grower. Light red.

Dwarf Pear

Dwarf Pear Trees—3-4 ft., first class.....25c each, 5 for \$1.00.

Dwarf Pear Trees—2-3 ft., first class.....15c each, 5 for \$.65.

Clapp's Favorite—Long, yellow pear, very large. Resembles the Bartlett. To get fruit at its earliest, pick a week before it ripens.

Our Dwarf Pear will bear fruit the first year after planting. Any one who wishes to get quick results and does not want to wait long to get fruit from their trees, we would advise to plant dwarf pear. The fruit is the same as that of the standard trees, except that the trees bear fruit at a very early age. We have had dwarf pear trees in our nursery rows that were only two years old that have produced from four to six large pears, and have often seen trees that were only a few years old that would bear from a peck to one-half bushel of pears. We only offer the following varieties in Dwarf Pear.

Duchess—Large fruit, ripens September to October.

Flemish Beauty—Very hardy, excellent flavor. September to October.

Bartlett—Fine quality, good bearer. August and September.

Clapp's Favorite—Handsome, large fruit, good quality. August.

Seckle—Well-known dessert pear, very hardy. September and October.

Standard Pear

Pear Standard—2 yr. old, first class, 5-6 ft. 35c each, 3 for \$1.00.

Pear Standard—2 yr. old, first class, 4-5 ft. 25c each, 5 for \$1.00.

A fruit you cannot do without for eating, canning purposes, shipping, and market. The following are well tested varieties and you ought to have them in your orchards.

Kieffer—Excellent keeping qualities, well known, large fruit, golden yellow in color.

Bartlett—Home and market variety. Very popular, yellow with red blush, rich and juicy and highly flavored. Bears when quite young.

Flemish Beauty—Very hardy variety, abundant bearer. Fruit large, skin pale yellow with touch of brown.

Clapp's Favorite—Long, yellow pear, very large. Resembles the Bartlett. To get fruit at its earliest, pick a week before it ripens.

Ornamental Trees

Norway Maple—A large, handsome tree, round top, compact. Very good for street, park, and lawn planting. 8-10 ft. \$1.00.

Soft Maple—A rapid grower in any section of country. The leaves are green with silver cast underneath. Very attractive tree. 8-10 ft. 40c; 10-12 ft. 50c.

Magnolia—Very hardy and one of the best species. Always blooms freely and abundantly. Well filled with bloom buds, \$2.00 each.

Catalpa Bungii—This is a very attractive tree and every one should have one or two on their lawn. Used extensively for formal gardens, etc. 5-7 ft., 2-yr. heads, \$1.25 each.

Evergreens

These are becoming more popular each year. People have begun to appreciate the real value of an evergreen for wind-breaks, winter beauty, protection to orchards. They practically have no disease to contend with, nor do they harbor insects which attack orchards. At the prices quoted below, you can afford to plant a good supply of them.

Austrian Pine—Very fast growing pine. Perfectly hardy, beautiful green foliage. A variety that is used more extensively than any other pine. 2-3 ft. 50c each.

Dwarf Pine—Dwarf in habits, bright green foliage, used for planting around foundations, or low border planting; perfectly hardy. 12-24 inches. 60c each.

Yellow Pine—A very rapid growing hardy pine, good colored foliage. 3-4 ft. 50c each.

American Arbor Vitae—One of the hardiest and best-known Japanese evergreen, can stand pruning and shearing better than any other evergreen, making one of our best hedge plants, used extensively in cities on account of resisting smoke. 3-4 ft. 75c each.

Irish Juniper—A beautiful, green, upright-growing cedar like evergreen, used very extensively by landscape gardeners. 3-4 ft. 75c each.

White Spruce—Very hardy, rapid growth, beautiful foliage, silvery green and long lived. Plant 2-3 ft. 40c each.

Norway Spruce—Dark green foliage. Perfectly hardy, extensively used for Christmas trees. Plants 2-3 ft. 50c each.

Kosters Blue Spruce—One of the most beautiful of all evergreens. Foliage perfectly blue, very hardy and admired by all. Select blue specimens. 2-3 ft. \$3.25 each.

Roses

Good, big, first-class, field-grown roses. 25c each, 5 for \$1.00. We are only offering roses that are first class in every way, plants that have been grown in the field, which are perfectly hardy and will stand transplanting. The following are all good, free-blooming, hardy roses.

Coquette De Alps—White, very free bloomer.

Ulrich Brunner—Cherry red, beautiful foliage, good bloomer.

Mrs. John Laing—A beautiful pink, free bloomer.

Anna Diesbach—A good free bloomer, bright red.

Frau Karl Druscki—One of the best, hardiest free bloomers, white.

CLIMBING ROSES.

Crimson Rambler—Bright red.

Dorothy Perkins—Pink climber, one of the best.

Lady Gay—Light pink, good foliage, fast grower.



Snowball

Shrubs

Shrubs are becoming more popular each year and used in many ways, for grouping, massing, borders, and cut flowers. No home is complete without some shrubs around it. The following shrubs are the most popular and satisfactory varieties:

Berberry Thunbergii—A handsome, hardy, low-growing shrub, green foliage, yellow flowers, and produces a very beautiful winter effect with bright scarlet berries. Used more than any other shrub. Bushy plants. 18-24 in. **20c.**

Berberry Purple Leaf—Growing in height from 4 to 5 ft., beautiful purple leaves, red berries in fall of year. Plants 2-3 ft, big stock. **20c.**

Althea, or Rose of Sharon—A very satisfactory shrub, both double and single, large assortment of different colors, and blooms when no other flowers bloom. 2-3 ft. **20c.**

Calycanthus—Known as old fashioned shrub, stems and leaves are very fragrant, also the flowers very hardy. 2-3 ft. **20c.**

Hydrangea P. G.—One of the best-known shrubs, planted very extensively by everybody; of easy culture, hardy, blooms every year and stays in bloom for several months. Plants 2-3 ft. **20c.**

Deutzias—A hardy shrub, very pretty flowers, blooms about Decoration time and the flowers are admired by all. Plants 2-3 ft. **20c.**

Forsythias—Very beautiful golden yellow flower and blooms very early in the spring, in fact they are the first to bloom and a very satisfactory shrub. 2-3 ft. **20c.**

Golden Elder—A shrub with beautiful golden leaves, which make it very attractive and when planted among other shrubbery. 2-3 ft. **20c.**

Weigelas—A beautiful flowering shrub commencing to bloom about Decoration time and continuing throughout the season. Shrub that should be planted at every home. Familiar to all. 2-3 ft. **20c each.**

Snowball—An old-fashioned shrub, well-known by every one. 2-3 ft. **20c each.**

Lilacs, Pink and White—A shrub too well-known for description. 2-3 ft. **20c each.**

Spirea Van Houtti—One of the best of all ornamental shrubs. Foliage is beautiful green and very graceful. 2-3 ft. **20c each.**

Perennials

Good, big, field-grown plants. **10c each, 8 for 50c, 15 for \$1.00.** Your selection of kinds.

Coreopsis—A very beautiful border plant, plants of elegant habit. Flowers golden yellow. Splendid for cut flowers.

Shasta Daisies—Very strong plants. One of Burbank's productions. Fine for cut flowers. Very large bloom.

Hardy Garden Pinks—Hardy perennial pinks. An old-fashioned flower very pretty for bedding and borders.

Foxglove—An old-fashioned flower. Famous for its long racemes of inflated flowers. Dignified and handsome.

Golden Glow—We all know what this is. Makes a very attractive background for your flower garden.

Hollyhocks—These are all familiar to us. We have them in every color and are very beautiful.

Irises—Commonly known as the Flag. These are among the richest flowers of the garden. All colors.

Phlox—We have a fine collection of these, different shades, and make a beautiful sight when planted in beds, or used for border plants.

Hibiscus—Foliage is strong and effective. Flowers are large and abundant. Like the golden glow they are good for planting for background. Tall growing.

Sweet William—All colors perfectly hardy plant, good for massing. Abundant bloomer.

Canterberry Belle—Very easy to grow, perfectly hardy. Attractive flowers.

Bulbs for Spring Planting

Peonies—Peonies are growing in popularity more each season. We have several different colors. Red, pink, and white. **25c each.**

Gladiolas—Very beautiful, different colors. Good for cut flowers. **2 for 10c; 25 for \$1.00.**

Dahlias—Good, old-fashioned flower. Well-known to all. **3 for 25c.**

Canna—The Canna is also familiar to all. Good for border planting, bedding, and grouping, etc. **3 for 20c; 20 for \$1.00.**

Caladiums—Very effective for planting in beds. **First size, 10c; mammoth size, 15c.**

Tuberose—Dwarf Double Pearl, very fragrant. White. **3 for 10c; 20 for 50c.**

Tuberous Rooted Begonias—Hardy but need some protection during the winter. They are gaining popularity every season. All colors, both single and double, **2 for 15c; 12 for 50c.**

REGENERATED SWEDISH
SELECT, THE HIGHEST
YIELDING OATS.





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300 __ |a 16 p. : |b ill. ; |c 23 cm.
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